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R1041

Polyclonal Antibody to Collagen type IV - Aff - Purified

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For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

MS/20180604

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	as a substrate for 30 minutes at room temperature. A working dilution of 1/4,000-1/8,000 of the stock concentration showed best results. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	 This product has been prepared by Immunoaffinity Chromatography using immobilized antigens followed by extensive cross-adsorption against other collagens, human serum proteins and non-collagen extracellular matrix proteins to remove any unwanted specificities. Typically less than 1% cross reactivity against other types of collagens was detected by ELISA against purified standards. Some class specific anti-collagens may be specific for three-dimensional epitopes which may result in diminished reactivity with denatured collagen or formalin-fixed, paraffin embedded tissues. This antibody reacts with most mammalian Type IV collagens and has negligible cross-reactivity with Type I, II, III, V or VI collagens. Nonspecific cross reaction of anti-collagen antibodies with other human serum proteins or non-collagen extracellular matrix proteins is negligible. Species: Human and Bovine. Other species not tested.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. For extended storage, mix with an equal volume of glycerol. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Product Citations:	 Purchased from Acris: 1. Sasse P, Malan D, Fleischmann M, Roell W, Gustafsson E, Bostani T, et al. Perlecan is critical for heart stability. Cardiovasc Res. 2008 Dec 1;80(3):435-44. doi: 10.1093/cvr/cvn225. Epub 2008 Aug 10. PubMed PMID: 18694874. 2. Behrens DT, Villone D, Koch M, Brunner G, Sorokin L, Robenek H, et al. The epidermal basement membrane is a composite of separate laminin- or collagen IV-containing networks connected by aggregated perlecan, but not by nidogens. J Biol Chem. 2012 May 25;287(22):18700-9. doi: 10.1074/jbc.M111.336073. Epub 2012 Apr 9. PubMed PMID: 22493504. 3. Rodriguez-Teja M, Gronau JH, Breit C, Zhang YZ, Minamidate A, Caley MP, et al. AGE-modified basement membrane cooperates with Endo180 to promote epithelial cell invasiveness and decrease prostate cancer survival. J Pathol. 2015 Mar;235(4):581-92. doi: 10.1002/path.4485. Epub 2014 Dec 24. PubMed PMID: 25408555. 4. Rodriguez-Teja, M;Breit, C;Clarke, M;Talar, K;Wang, K;Mohammad, MA;Pickwell, S;Etchandy, G;Stasiuk, G];Sturge, J;2016How to Study Basement Membrane Stiffness as a Biophysical Trigger in Prostate Cancer and Other Age-related Pathologies or Metabolic Diseases. J Vis Exp 115. PubMed PMID: 27684203. 5. Loch, C;Haeger, J;Pfarrer, C, IFNT mediates chemotaxis, motility, metabolism and CK18 downregulation in bovine trophoblast cells in vitro via STAT1 and MAPK42/44 signaling. Placenta

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Pictures:

R1041 Collagen IV antibody (Lot 25440, 1/400, 45 min RT) showed strong staining in FFPE sections of Human kidney (Left) with strong Red staining observed in glomeruli and liver (Right) with strong staining in sinusoids. Staining for both tissues was consistent with a basement membrane distribution. Slides were steamed in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes for antigen retrieval. Images provided courtesy of LifeSpan Biosciences, Seattle, WA



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